

CLAIMS

The following is a complete listing of the claims which replaces any prior versions.

- 1 1. (currently amended) A method for providing improved print quality
2 regardless of media smoothness, comprising:
3 ascertaining information regarding the smoothness of media; and
4 utilizing the information about the media smoothness in the generation of an output,
5 wherein utilizing includes using a halftoning screen related to the information about the
6 media smoothness.
- 1 2. (cancelled) The method of claim 1 wherein the utilizing further comprises
2 using a halftoning screen related to the information about the media smoothness.
- 1 3. (original) The method of claim 1 wherein the ascertaining further comprises
2 identifying a smoothness level for the media.
- 1 4. (original) The method of claim 3 wherein the identifying further comprises
2 manually providing the smoothness level to a print device.
- 1 5. (cancelled) The method of claim 4 wherein the utilizing further comprises
2 using a halftoning screen related to the information about the media smoothness.
- 1 6. (original) The method of claim 4 wherein the print device is a printer.
- 1 7. (original) The method of claim 4 wherein the print device is a digital copier.
- 1 8. (original) The method of claim 3 wherein the identifying further comprises
2 projecting light on media to be printed on, gathering reflected light from the media,
3 generating a signal indicating a smoothness level for the media and processing the signal
4 indicating the smoothness level for the media to quantify the media smoothness.

1 9. (cancelled) The method of claim 8 wherein the utilizing further comprises
2 using a halftoning screen related to the information about the media smoothness.

1 10. (original) The method of claim 1 wherein the ascertaining further comprises
2 storing information with a print job, wherein the information comprises a smoothness
3 parameter associated with the print job.

1 11. (original) The method of claim 1 further comprising communicating to a
2 host when media having a smoothness required according to the information is not available
3 in the print device.

1 12. (original) The method of claim 11 further comprising issuing an alert
2 indicating that media having smoothness required according to the information is
3 unavailable.

1 13. (currently amended) A print device, comprising:
2 a marker system for rendering a page layout on a medium; and
3 a smoothness processing system, coupled to the marker system, the smoothness
4 processing system ascertaining information regarding the smoothness of media and
5 controlling the marker system in response to the ascertained information about the media
6 smoothness, the smoothness processing system comprising:
7 a user input interface for manually entering a media smoothness indicator.

1 14. (cancelled) The print device of claim 13 wherein the smoothness processing
2 system comprises a user input interface for manually entering a media smoothness indicator.

1 15. (original) The print device of claim 14 wherein the smoothness processing
2 system further comprises a processor, the processor receiving the media smoothness
3 indicator and selecting a halftoning screen according to the media smoothness indicator.

1 16. (currently amended) The print device of claim 15 wherein the selected
2 halftoning screen controls the marker system to provide an optimal print quality for the page
3 layout on the medium.

1 17. (original) The print device of claim 13 wherein the smoothness processing
2 system further comprises: a light source for projecting light onto a medium; a light converter
3 for gathering light reflected off of the medium in proportion to the smoothness of the
4 medium and in response generating a signal proportional to the smoothness of the medium;
5 and a processor, coupled to the light converter, for processing the signal proportional to the
6 smoothness of the medium to generate a control signal and selecting a halftoning screen
7 according to the media smoothness indicated by the control signal.

1 18. (original) The print device of claim 17 wherein the light converter
2 comprises a fresnel lens and a charge coupled device.

1 19. (original) The print device of claim 13 wherein the marker further includes a
2 finisher, the finisher using the information regarding the smoothness of media to apply an
3 appropriate halftoning screen for use with the media having the indicated smoothness.

1 20. (original) The print device of claim 13 wherein the smoothness processing
2 system receives information regarding the smoothness of the media that is associated with
3 and stored with a print job.

1 21. (original) The print device of claim 13 further comprising a bi-directional
2 print stream, the print device communicating to a host through the bi-directional print stream
3 when media having a smoothness required according to the information is not available in
4 the print device.

1 22. (original) The print device of claim 13 further comprising issuing an alert
2 for indicating that media having smoothness required according to the information is
3 unavailable.

1 23. (currently amended) An article of manufacture comprising a program
2 storage medium readable by a computer, the medium tangibly embodying one or more
3 programs of instructions executable by the computer to perform a method for providing
4 improved print quality regardless of media smoothness, the method comprising: ascertaining
5 information regarding the smoothness of media; and utilizing the information about the
6 media smoothness in the generation of an output, wherein utilizing the information includes
7 using a halftoning screen related to the information about the media smoothness.

1 24. (cancelled) The article of manufacture of claim 23 wherein the utilizing
2 further comprises using a halftoning screen related to the information about the media
3 smoothness.

1 25. (original) The article of manufacture of claim 23 wherein the ascertaining
2 further comprises identifying a smoothness level for the media.

1 26. (original) The article of manufacture of claim 25 wherein the identifying
2 further comprises manually providing the smoothness level to a print device.

1 27. (cancelled) The article of manufacture of claim 26 wherein the utilizing
2 further comprises using a halftoning screen related to the information about the media
3 smoothness.

1 28. (original) The article of manufacture of claim 25 wherein the identifying
2 further comprises projecting light on media to be printed on, gathering reflected light from
3 the media, generating a signal indicating a smoothness level for the media and processing
4 the signal indicating the smoothness level for the media to quantify the media smoothness.

1 29. (cancelled) The article of manufacture of claim 28 wherein the utilizing
2 further comprises using a halftoning screen related to the information about the media
3 smoothness.

1 30. (original) The article of manufacture of claim 23 wherein the ascertaining
2 further comprises storing information with a print job, wherein the information comprises a
3 smoothness parameter associated with the print job.

1 31. (original) The article of manufacture of claim 23 further comprising
2 communicating to a host when media having a smoothness required according to the
3 information is not available in the print device.

1 32. (original) The article of manufacture of claim 31 further comprising issuing
2 an alert indicating that media having smoothness required according to the information is
3 unavailable.